

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: March 6, 2006, 14:43:28 ; Search time 48 Seconds  
(without alignments)  
1278.028 Million cell updates/sec

Title: US-10-090-215-12

Perfect score: 3858

Sequence: 1 MADSEGPAGGGEVAELPG.....GOVSXSHKWLQSGRRRL 742

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/iaa/5\_COMB.pep.\*  
2: /cgn2\_6/prodata/1/iaa/6\_COMB.pep.\*  
3: /cgn2\_6/prodata/1/iaa/H\_COMB.pep.\*  
4: /cgn2\_6/prodata/1/iaa/PCUS\_COMB.pep.\*  
5: /cgn2\_6/prodata/1/iaa/RG\_COMB.pep.\*  
6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3858	100.0	742	2	US-09-500-123-12
2	3823	99.1	871	2	US-09-500-123-7
3	3470	89.9	811	2	US-09-500-123-9
4	1604.5	41.6	843	2	US-09-235-451-25
5	1604.5	41.6	843	2	US-09-235-451-25
6	1579.5	40.9	838	2	US-09-235-451-2
7	1579.5	40.9	838	2	US-09-132-316-3
8	1579.5	40.9	838	2	US-09-667-422-9
9	1579.5	40.9	838	2	US-09-978-303-2
10	1579.5	40.9	838	2	US-10-246-435-9
11	1579.5	40.9	838	2	US-10-137-316-3
12	1557.5	40.4	839	2	US-09-197-636-2
13	1556.5	40.3	839	2	US-09-197-636-8
14	1556.5	40.3	839	2	US-09-235-451-34
15	1556.5	40.3	839	2	US-09-978-303-34
16	1555.5	40.3	839	2	US-09-533-220A-2
17	1555.5	40.3	839	2	US-09-949-016-6937
18	1555.5	40.3	839	2	US-10-128-853-2
19	1552.5	40.2	839	2	US-09-197-636-4
20	1551.5	40.2	839	2	US-09-667-422-4
21	1551.5	40.2	839	2	US-10-246-435-4
22	1375	35.6	798	2	US-09-949-016-9926
23	1324	34.3	761	2	US-09-235-451-4
24	1324	34.3	761	2	US-09-978-303-4
25	1306	33.9	889	2	US-09-132-316-2
26	1306	33.9	889	2	US-10-137-316-2
27	1298.5	33.7	764	2	US-09-235-451-36

28	1298.5	33.7	764	2	US-09-978-303-36	Sequence 36, Appl
29	1071	27.8	511	2	US-09-667-422-5	Sequence 5, Appl
30	1071	27.8	511	2	US-10-246-435-5	Sequence 5, Appl
31	777	20.1	727	2	US-09-235-451-23	Sequence 23, Appl
32	777	20.1	727	2	US-09-978-303-23	Sequence 23, Appl
33	733	19.0	727	2	US-09-350-457A-4	Sequence 4, Appl
34	724.5	18.8	725	2	US-09-350-457A-2	Sequence 2, Appl
35	548.5	14.2	279	2	US-09-149-476-500	Sequence 500, App
36	521	13.5	511	2	US-09-759-143-909	Sequence 909, App
37	521	13.5	511	2	US-10-012-896-909	Sequence 909, App
38	227	5.9	71	2	US-09-235-451-14	Sequence 14, Appl
39	227	5.9	71	2	US-09-978-303-14	Sequence 14, Appl
40	221.5	5.7	1709	2	US-09-392-812A-6	Sequence 6, Appl
41	216	5.6	1165	2	US-09-949-016-6874	Sequence 6874, Ap
42	215	5.6	1165	2	US-09-949-016-11392	Sequence 11392, A
43	213	5.5	134	2	US-09-759-143-910	Sequence 910, App
44	213	5.5	134	2	US-10-012-896-910	Sequence 910, App
45	210	5.4	1619	2	US-09-392-812A-4	Sequence 4, Appl

## ALIGNMENTS

## RESULT 1

US-09-500-123-12  
; Sequence 12, Application US/09500123  
; Patent No. 6455278  
; GENERAL INFORMATION:  
; APPLICANT: Dubin, Adrienne E  
; APPLICANT: Huvar, Arne  
; APPLICANT: Erlander, Mark G  
; APPLICANT: Glasse, Charles A  
; TITLE OF INVENTION: DNA encoding Isoforms of the human Vanilloid Receptor  
; TITLE OF INVENTION: VR3  
; FILE REFERENCE: Human VR3 receptors  
; CURRENT APPLICATION NUMBER: US/09/500,123  
; CURRENT FILING DATE: 2000-02-08  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 12  
; LENGTH: 742  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-500-123-12

Query Match		100.0%;	Score 3858;	DB 2;	Length 742;
Best Local Similarity		100.0%;	Pred. No. 0;		
Matches 742;		Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MADSEGPAGGGEVAELPGDESGTGGGEAPLSSLANLFEDEGSLSPADASRPAGP	60		
Db	1	MADSEGPAGGGEVAELPGDESGTGGGEAPLSSLANLFEDEGSLSPADASRPAGP	60		
Qy	61	GDGRNLRMKFGAQRKGVNPIDILLESYESSVVPKAPMDSLDYGYRHHSSDN	120		
Db	61	GDGRNLRMKFGAQRKGVNPIDILLESYESSVVPKAPMDSLDYGYRHHSSDN	120		
Qy	121	KHWRKKITEKQSPKAPAPQPPILKVNRPILFDIVSRGTADLDGLLTHKKEL	180		
Db	121	KHWRKKITEKQSPKAPAPQPPILKVNRPILFDIVSRGTADLDGLLTHKKEL	180		
Qy	181	TDEEFREPSTGKTCPLKALLNLSNGRNDTIPVLLDIAERTGNMRFINSPPFRDIYYRGOT	240		
Db	181	TDEEFREPSTGKTCPLKALLNLSNGRNDTIPVLLDIAERTGNMRFINSPPFRDIYYRGOT	240		
Qy	241	ALHIAIERCKHYVELLVAQADVAHQAGRFPPKDEGGYFYFGEPLPLSLAQTNPQHI	300		
Db	241	ALHIAIERCKHYVELLVAQADVAHQAGRFPPKDEGGYFYFGEPLPLSLAQTNPQHI	300		
Qy	301	VNYLTENPHKKADMRQDSRGNTVLHALVAIADNTRENTKFTVMYDLLLLLKCRLFPDS	360		
Db	301	VNYLTENPHKKADMRQDSRGNTVLHALVAIADNTRENTKFTVMYDLLLLLKCRLFPDS	360		

Qy	361	NLEAVLNNDGLSPLMMAAKTKIGIFQHI	IREVTDDETRHLSRKFKDWAYGVPYSSLYD	420
Db	361	NLEAVLNNDGLSPLMMAAKTKIGIFQHI	IREVTDDETRHLSRKFKDWAYGVPYSSLYD	420
Qy	421	LGSLDTCGEASVLEILVTVNSKIENRHEMLAVEPINELLRDKWKFCAVGFYINNVSYLC	480	
Db	421	LGSLDTCGEASVLEILVTVNSKIENRHEMLAVEPINELLRDKWKFCAVGFYINNVSYLC	480	
Qy	481	AMVIFTLTAYYQLEGTPPYPRYTTVDYLRLAGEVITLFTGVLFPPFTNINKDLFMKKCPGV	540	
Db	481	AMVIFTLTAYYQLEGTPPYPRYTTVDYLRLAGEVITLFTGVLFPPFTNINKDLFMKKCPGV	540	
Qy	541	NSLFDGSPQLLYFYIYSVLVIVSAALYIAGIEAYLAVVFPALVLGWNALYFTRGLKLTG	600	
Db	541	NSLFDGSPQLLYFYIYSVLVIVSAALYIAGIEAYLAVVFPALVLGWNALYFTRGLKLTG	600	
Qy	601	TVYSIMIQTLPKDLFRELLVYLLFMIGYASALVSLNPNCANMKVCNEDQNTCTVTPYPSC	660	
Db	601	TVYSIMIQTLPKDLFRELLVYLLFMIGYASALVSLNPNCANMKVCNEDQNTCTVTPYPSC	660	
Qy	661	RDSFTFSTFLLDLFKLTIGMGDLEMLSSTKYPVVFIILLVYIILTPVLLNMLIALMGE	720	
Db	661	RDSFTFSTFLLDLFKLTIGMGDLEMLSSTKYPVVFIILLVYIILTPVLLNMLIALMGE	720	
Qy	721	TVGQVSKEGSHIWKLOSGRRRL	742	
Db	721	TVGQVSKEGSHIWKLOSGRRRL	742	

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RESULT 2
US-09-500-123-7
; Sequence 7, Application US/09500123
; Patent No. 6455278
; GENERAL INFORMATION:
; APPLICANT: Dubin, Adrienne E
; APPLICANT: Huvar, Arne
; APPLICANT: Erlander, Mark G
; APPLICANT: Glass, Charles A
; TITLE OF INVENTION: DNA encoding isoforms of the human Vanilloid Receptor
; TITLE OF INVENTION: VR3
; FILE REFERENCE: Human VR3 receptors
; CURRENT APPLICATION NUMBER: US/09/500,123
; CURRENT FILING DATE: 2000-02-08
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 871
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-500-123-7

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Query Match	99.1%	Score 3823	DB 2	Length 871
Best Local Similarity	99.9%	Pred. No. 0		
Matches 735	Conservative 0	Mismatches 1	Indels 0	Gaps 0
Qy	1	MADSSGPRAGPGVAELPGDSECTPGCEAPPLSSLANLPEGEQGSLSPPADASRRPAGP	60	
Db	1	MADSSGPRAGPGVAELPGDSECTPGCEAPPLSSLANLPEGEQGSLSPPADASRRPAGP	60	
Qy	61	GDGRPNLRMKFQGAFRKGVGNPDLLESTLYESSVVPQPKAPMDSLFDYGTYYRHSSDN	120	
Db	61	GDGRPNLRMKFQGAFRKGVGNPDLLESTLYESSVVPQPKAPMDSLFDYGTYYRHSSDN	120	
Qy	121	KWRKKKIIEQQPSGPKAPAPOPPPILKVFNRPILFDIVSRGSTADLDGLLPFLLTTHKKRL	180	
Db	121	KWRKKKIIEQQPSGPKAPAPOPPPILKVFNRPILFDIVSRGSTADLDGLLPFLLTTHKKRL	180	
Qy	181	TDEEFPSPTGKTCLPKALLNLNGRNDTIPLVLDIAERTGNMREFTNSPERDIYYRGOT	240	
Db	181	TDEEFPSPTGKTCLPKALLNLNGRNDTIPLVLDIAERTGNMREFTNSPERDIYYRGOT	240	
Qy	241	ALHIAIERRCKHYVELLVAQGAQVHAQARGFFQKDEGGYFFYFGEPLFLSLAACTNPHI	300	

241	Db	ALHIAIERRCKHYVELLVAQADVHAQARGFFQKQEGGYFFGELPLSLAACTNQPHI	300
301	Qy	VNYLTENPHKKADMRQDSRGNTVLHALVAIADNTRENTKFTVMYDILLKLCARLFPDS	360
301	Db	VNYLTENPHKKADMRQDSRGNTVLHALVAIADNTRENTKFTVMYDILLKLCARLFPDS	360
361	Qy	NLEAVLNDGLSPLMMAAKTGKIGI FQHI IRREVTVDEDTRLHSRKFQDWAYGPTVSSLYD	420
361	Db	NLEAVLNDGLSPLMMAAKTGKIGI FQHI IRREVTVDEDTRLHSRKFQDWAYGPTVSSLYD	420
421	Qy	LSSLDTCGEASVLEILVYNSKIENRHEMLAVEPINELLRKWRKFGAVSFYINVVSYLC	480
421	Db	LSSLDTCGEASVLEILVYNSKIENRHEMLAVEPINELLRKWRKFGAVSFYINVVSYLC	480
481	Qy	AMVIFTLTAYYQPLEGTPPPYRTTVDYLRAGEVITLTGVLPPFTNI KOLFMKKCPGV	540
481	Db	AMVIFTLTAYYQPLEGTPPPYRTTVDYLRAGEVITLTGVLPPFTNI KOLFMKKCPGV	540
541	Qy	NSLFDGSPQLLYFIYSVLVTVSAAVYLAGTAEVLAVMVFALVLGWMNALYFTRGLKLTG	600
541	Db	NSLFDGSPQLLYFIYSVLVTVSAAVYLAGTAEVLAVMVFALVLGWMNALYFTRGLKLTG	600
601	Qy	TYSIMIQKILFKOLFRFLVYLLPMIGVASALVSLINLPCANMKVCNEDQTNCTVPTYBSC	660
601	Db	TYSIMIQKILFKOLFRFLVYLLPMIGVASALVSLINLPCANMKVCNEDQTNCTVPTYBSC	660
661	Qy	RDSSTFTFLLDLFKLITGMGDLEMLSTKYVPVFIILLVTYIILTFVLLLNMLLALMGE	720
661	Db	RDSSTFTFLLDLFKLITGMGDLEMLSTKYVPVFIILLVTYIILTFVLLLNMLLALMGE	720
721	Qy	TVGVQSVKESKHIWKIQ 736	
721	Db	TVGVQSVKESKHIWKIQ 736	

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RESULT 3
US-09-500-123-9
; Sequence 9, Application US/09500123
; Patent No. 6455278
; GENERAL INFORMATION:
; APPLICANT: Dubin, Adrienne E
; APPLICANT: Huvar, Arne
; APPLICANT: Erlander, Mark G
; APPLICANT: Glass, Charles A
; TITLE OF INVENTION: DNA encoding Isoforms of the human Vanilloid Receptor
; TITLE OF INVENTION: VR3
; FILE REFERENCE: Human VR3 receptors
; CURRENT APPLICATION NUMBER: US/09/500,123
; CURRENT FILING DATE: 2000-02-08
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 9
; LENGTH: 811
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-500-123-9

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[illegible]

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QY 181 TDEEPREPSTGKTCPLKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYRGQT 240
Db 181 TDEEPREPSTGKTCPLKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYRGQT 240
QY 241 ALHIAIERCKKHVVELLVQAQADVAHQAGRFPPQKDEGGYFYFGEPLPLSLAACTNQHPI 300
Db 241 ALHIAIERCKKHVVELLVQAQADVAHQAGRFPPQKDEGGYFYFGEPLPLSLAACTNQHPI 300
QY 301 VNYLTENPHKADMRQDSRGNTVLAHALVAIAADNTRENTKFTVMYDLDLLKCARLPDS 360
Db 301 VNYLTENPHKADMRQDSRGNTVLAHALVAIAADNTRENTKFTVMYDLDLLKCARLPDS 360
QY 361 NLEAVLNNDGLSLPMAAATGKIGIFQHIIRREVTDETRHLSRKFQKWAYGVPVSSLYD 420
Db 361 NLEAVLNNDGLSLPMAAATGKIGIFQHIIRREVTDETRHLSRKFQKWAYGVPVSSLYD 420
QY 421 LSSLDTCGEASVLEILVYNSKIENHEMLAVEPINELLRDWRKFGAVSFYINNVSYLC 480
Db 421 LSSLDTCGEASVLEILVYNSKIENHEMLAVEPINELLRDWRKFGAVSFYINNVSYLC 480
QY 481 AMVIFLTAYQPLEGTPPYRTVDYLRLAGEVITLFTGVLFPPFTNFKDLPMKKCPGV 540
Db 481 AMVIFLTAYQPLEGTPPYRTVDYLRLAGEVITLFTGVLFPPFTNFKDLPMKKCPGV 540
QY 541 NSLFDGSQLLYFYISVLVIVSAALYLAGIEAYLAVMVFPALVGMNVALYFTRGLKLTG 600
Db 541 NSLFDGSQLLYFYISVLVIVSAALYLAGIEAYLAVMVFPALVGMNVALYFTRGLKLTG 600
QY 601 TVSIMQKILFKDLFRLLVYLLFMIGYASALVSLNPNCAKMKVCNEDQTNCTVTPYPS 660
Db 601 TVSIMQKILFKDLFRLLVYLLFMIGYASALVSLNPNCAKMKVCNEDQTNCTVTPYPS 660
QY 661 ROSETFTFLDLFLKLTIGMGDLEMLSSTKYPVVFILLYIILTFVLLNMLIALMGE 720
Db 661 ROSETFTFLDLFLKLTIGMGDLEMLSSTKYPVVFILLYIILTFVLLNMLIALMGE 720
QY 721 TVGQVSKESKHIWKLQ 736
Db 721 TVGQVSKESKHIWKLQ 736
QY 736 TVGQVSKESKHIWKLQ 736
Db 736 TVGQVSKESKHIWKLQ 736

RESULT 4
US-09-235-451-25
; Sequence 25, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR FILING DATE: 1999-01-22
; PRIOR FILING DATE: 1998-01-22
; PRIOR FILING DATE: 1998-01-22
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 843
; TYPE: PRT
; ORGANISM: chicken
US-09-235-451-25

Query Match 41.6%; Score 1604.5; DB 2; Length 843;
Best Local Similarity 47.5%; Pred. No. 1.5e-143;
Matches 343; Conservative 128; Mismatches 184; Indels 67; Gaps 18;

QY 41 EGDGSLSPADASRAGFGDGRNLRMKFQAGFRKGVNPNIDLLLESTLY--ESSWVFG 98
Db 27 DGEDSAL--ETAD-----NLQGTG----SNKVPQSPKSNIFARRGRFVNG 64
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QY 99 ---PKKAPMDSLFDY-----CTYRHSSDNKRWRKKIIEKQP---QSPKAPAPQPPPL 146
Db 65 DCDKDWAPNDSPYQMDHLWAPSVIKFANMERGKHLKLLSTDSITCCSEKA-----F 116
QY 147 KVFNPRIPLFDIVSRGSTADLDGLPLTHKKRLTDEEPREPSTGKTCPLKALLNLSNGR 206
Db 117 KEYDRRRIPDAVARGSTKOLDLLLYLNRLLKHLTDDEFKEPETGKTCLLKAMLLHDGK 176
QY 207 NDTIPVLLDIAERTGNMREFINSPFRDIYRGQTALHIAIERCKKHVVELLVQAQADVAH 266
Db 177 NDTIPVLLDIAERTGNMREFINSPFRDIYRGQTALHIAIERCKKHVVELLVQAQADVAH 236
QY 267 QARGFFQFQ-KDEGGYFYFGEPLPLSLAACTNQHPIVNYLTENPHKADMRQDSRGNTVYL 325
Db 237 RACGFFRKLKQKPG-FYFGEPLPLSLAACTNQLCIVKFLLENFYQNAADAAEDSMGNVYL 295
QY 326 HALVAIAADNTRENTKFTVMYDLDLLKCARLPDSNLEAVLNNDGLSLPMAAATGKIGI 385
Db 296 HTLVBIADNTKONTKFTVMYNNILITGAKINPILKLELTNKKGLTPLTAAKTGKIGI 355
QY 386 FOHIIRREVTDETRHLSRKFQKWAYGVPVSSLYDLSLDTCGEASVLEILVYNSKIEN 445
Db 356 FAYILRREIKDPECRHLRKRKFTWAYGVPVSSLYDLSLDTC-ENKSVLEIITAYSSETPN 414
QY 446 RHEMLAVEPINELLRDWRKFGAVSFYINNVSYLCAMVIFLTAYQPLE--GTPPYPY- 502
Db 415 RHEMLAVEPINELLRDWRKFGAVSFYINNVSYLCAMVIFLTAYQPLE--GTPPYPY- 502
QY 503 RTVDYLRLAGEVITLFTGVLFPPFTNFKDLPMKKCPGVNSLFDGSQLLYFYISVLVIV 562
Db 475 HSTGEYFRTGSEILSVLGLYFFFRGIQ-YFQVRPRLKTLIVDSYSEVLFFVHSLULLS 533
QY 563 SAALYLAGIEAYLAVMVFPALVGMNVALYFTRGLKLTGTYSIMQKILFKDLFRLLVYL 622
Db 534 SVLVYFCGQELVAVSVFSLAGWANMLYTRGFQMGYISVMIAKMLRDLRCRFFVYL 593
QY 623 LFMIGYASALVSLNPNCAKMKVCNEDQ-TNCTVTPYPSRCDSETFT-----FLDLF 674
Db 594 VFLLGFSTAVTLIED-----DNEGQDNTSS--EYARCSHTRGRTSYNSLYTCLFLF 645
QY 675 KLTIQMGDLEMLSSTKYPVVFILLYIILTFVLLNMLIALMGETVQGVSKESKHIW 734
Db 646 KFTIGMGDLEFTEYRFRKSVFVILLVYLVILVILLNMLIALMGETVSKIAQESKSIW 705
QY 735 LQ 736
Db 706 LQ 707

RESULT 5
US-09-978-303-25
; Sequence 25, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
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**This Page Blank (usp10)**

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/ LENGTH: 843
/ TYPE: PRT
/ ORGANISM: chicken
US-09-978-303-25

Query Match
Best Local Similarity 41.6%; Score 1604.5; DB 2; Length 843;
Matches 343; Conservative 128; Mismatches 184; Indels 67; Gaps 18;

QY 41 EGEDGSLSPADASRPGAGDGRPNLRMKFQAGARKGVNPDIDLESSTLY--ESSVVG 98
Db DGEDSAL--ETAD-----NLOQTF-----SNKVQPSKSNIFARRGRFVNG 64
QY 99 ---PKAPMDSLFDY-----GTYRHSSDNKRWRKIIIEKQP---QSPKAPAPPPPIIL 146
Db DCDKQMAPNDSFQMDHLMAPSVIKPHANMERGLKHLSTDSITCSEKA-----F 116
QY 147 KVNPNRPIIDIVSRGSTALDGLPLTHKRLTDERPREPSTGKTCLPKALLNLSNR 206
Db 117 KFYDRRIIFDAVARGSTKDLDDLILNRTLKHLTDDPEKPEPTGKTCLLKAMLNHDK 176
QY 207 NTIPVLLDIABRTGNMRFINSPRDIYRGOTALHIAIERCKHYVELLVAQADVHA 266
Db 177 NTIPVLLDIAGTKLKEFVNAEYTDNYKGTALHIAIERNNMVLVLLVQNGADVHA 236
QY 267 QARGFFQP-KDEGGYFEGELPLSLAACTNPHIVNYLTENPHKKADMRDQSGNTVL 325
Db 237 RACGFFRKIKGPG-FYEGELPLSLAACTNQLCIVKFLLENPYQAADIAEDSGNMVL 295
QY 326 HALVAIADNTRENTKFTVQWYDILLKLCARLPDSNLEAVLNNDGLSPMLMAAKTKG 385
Db 296 HTLVEIADNTKNTKFTVQWYDILLKLCARLPDSNLEAVLNNDGLSPMLMAAKTKG 355
QY 386 FOHIIIRREVTDETHLSRKFKDWAYGPVYSIYDLSSLDTCGEASVLEILLVYNSK 445
Db 356 FAYILIRREIKDCEHLSRKFTWAYGPVHSSYDLSSLDTC- EKNSVLEIITAYSETPN 414
QY 446 RHEMLAVEPINELLRDKWRKFGAVSYINWVSLCAMVFTLTAYVQPLE--GTTPPYV 502
Db 415 RHEMLAVEPINELLRDKWRKFGAVSYINWVSLCAMVFTLTAYVQPLE--GTTPPYV 474
QY 503 RTVDYLRAGAVITLFTGVLPFFNIIKDLPMKKCPGVNSLFDGSPQLLYFIYSLVIV 562
Db 475 HSTGEYFRVTGILSVGLGYFFRGIQ-YFVQRRPSLKTLLVDSYSEVLFPVHSLIL 533
QY 563 SAALYLAGIAYLVAVFALVGMNLYFTGLKLTGYSTWIKILFKDLFRLLVYL 622
Db 534 SVLYFCGQELYVAVSFALVGMNLYFTGLKLTGYSTWIKILFKDLFRLLVYL 593
QY 623 LFMIGVASALVILNCPANMKVCNEDQ-TNCTVTPYPSCRDSEFTST-----FLLDLF 674
Db 594 VFLGFSSTAVVLIED-----DNEGQDNSS--EYARCSHTKRGTSVNSLYITCLELF 645
QY 675 KUTIGMDLEMLSSSTKYPVFIILVITYIILFVLLNMLIALMGETVQGVSKESKIHWK 734
Db 646 KFTIGMGDLEFTENRFKSVFVILLVYVILTYILLNMLIALMGETVSKIAQESKIWK 705
QY 735 LQ 736
Db 706 LQ 707

RESULT 6
US-09-235-451-2
/ Sequence 2, Application US/09235451
/ GENERAL INFORMATION:
/ APPLICANT: Julius, David J.
/ APPLICANT: Caterina, Michael J.
/ APPLICANT: Brake, Anthony J.
/ TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
/ TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
/ TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
/ FILE REFERENCE: 9076/084CIP

/ CURRENT APPLICATION NUMBER: US/09/235,451
/ CURRENT FILING DATE: 1999-01-22
/ PRIOR APPLICATION NUMBER: 60/072,151
/ PRIOR FILING DATE: 1998-01-22
/ PRIOR APPLICATION NUMBER: 08/915,461
/ PRIOR FILING DATE: 1997-08-20
/ NUMBER OF SEQ ID NOS: 48
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 2
/ LENGTH: 838
/ TYPE: PRT
/ ORGANISM: R. rattus
US-09-235-451-2

Query Match
Best Local Similarity 40.9%; Score 1579.5; DB 2; Length 838;
Matches 338; Conservative 129; Mismatches 193; Indels 97; Gaps 16;

QY 16 AELPDESGTQGE-----APPLSSLANLFEGEDGSLSPSPADA 54
Db 5 ASLDSSESESPQENSCLDPPDRDNCPPPVKPHIFTRSRTRLF-KGSDSEASPLDC 63
QY 55 SRPAGPGDGRNLRMKFQAGARKGVN-PIDLESSTLYESSVVGPKAPMDSLFYDGY 113
Db 64 PYEEG-----GLASCPITVSSVL-----TIQRPGDGP-----ASV 94
QY 114 RHSSDNKRWRKIIIEKQPQSPKAPAPQPPPIKVPNRPILFDIVSRGSTADLDGLPL 173
Db 95 RPSQDS-----VSAGEKPP--RLYDRRSIFDAVAQSNCELESLLPL 136
QY 174 LTHKKRLTDEFPREPSTGKTCLPKALLNLSGRNDTI PVLLDIAERTGNMREFINSPRD 233
Db 137 QRSKRLTDSFKPETGKTCLLKAMLNHNGQNTIALLDVARKTQSLKQFVNASTD 196
QY 234 IYRGOTALHIAIERCKHYVELLVAQADVHAQARGFFQPKDRGGYFYFGELPLSLAA 293
Db 197 SYVKGOTALHIAIERNNMTLVLLVENGADVQAAANGDFEKKTKRPGFYFGELPLSLAA 256
QY 294 CTNQHPIVNYLTENPHKKADMRDQSGNTVHALVAIADNTRENTKFTVQWYDILLK 353
Db 257 CTNQLAIKVLILNLSQWQPADISARDSVGNVTVHALVEADNTVDNTEKFTVSMYNEILIG 316
QY 354 ARLPDSNLEAVLNNDGLSPMLMAAKTKGIGFOHIIIRREVTDETHLSRKFKDWAYGP 413
Db 317 AKLHPTLKLREITNRKGLTPLALAASSGKIGVLYILOREIHEPECRLHSRKFTWAYGP 376
QY 414 VYSSLYDLSLDTCGEASVLEILLVY-NSKIENRHEMLAVEPINELLRDKWRKFGAVSY 472
Db 377 VHSSLYDLSLDTC- EKNSVLEIITAYSETPNRHDMLLVEPLNRLLDQKWDRFVKRIFY 435
QY 473 INVSYLCAWVITLTAYVQPLEGTPPYPTTV-DYLRAGAVITLFTGVLPFTTNKD 531
Db 436 FNFFVYCLYMIIFTAAAYRVEGLPPYKJNTVGDYFRVTGEILSVSGGYFFRGIQ- 494
QY 532 LFMKKCPGVNSLFDGSPQLLYFIYSLVIVISAALYLAGIAYLVAVFALVGMNLY 591
Db 495 YFLQRRPSLKSFLVDSYSEIILFFVQSLPMLVSVLYFSQRKEYVAVSMVFLAMGTNMLY 554
QY 592 FTRGLKLTGYSTWIKILFKDLFRLLVYLLPMLIGYASALVSLNCPANMKVCNEDQTN 651
Db 555 YTRGFQOMGIYAVMIEKMLRDLCRFMFVYLVLFGPSTAVVTLI-----EDGKN 604
QY 652 CTVP---TYPSCRS-----ETFTFLDLFLKLTIGMGDLEMLSSSTKYPVFIIL 699
Db 605 NSLPWESTPHKRGSAKPGNSYNLSYST-CLELKFKTIGMGDLEFTENYDFKAVFIIL 663
QY 700 VTYIILTFVLLNMLIALMGETVQGVSKESKIHWK 736
Db 664 LAYVILTYILLNMLIALMGETVSKIAQESKNIWK 700

RESULT 7
US-09-132-316-3
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; Sequence 3, Application US/09132316B
; Patent No. 6444440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110000
; CURRENT APPLICATION NUMBER: US/09/132.316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-132-316-3

Query Match      40.9%; Score 1579.5; DB 2; Length 838;
Best Local Similarity 44.6%; Pred.No.3.6e-141;
Matches 336; Conservative 129; Mismatches 193; Indels 97; Gaps 16;

Qy      16 AELPGDESGTPGGR-----APPLSLANLFGEDGSLSPSPADA 54
Db      5 ASLDSESESGPQNSCLDPEDRPNCKPPVPKPHIFTTRSRTRLF-GKGDSESEASPLDC 63

Qy      55 SRPAGPGDGRPLRMKFGQAFRKGVPN-PIDLLLESTLYESSVWPGPKAPMDSLFDVGYT 113
Db      64 PYBEG-----GLASCPITVSSVL-----TIQRPDGGP-----ASV 94

Qy      114 RHSSDNKRWRKKTIEKQOSPAPAPQPPPIKVFNRPIFLDIVSRGSTADLDGLLPFL 173
Db      95 RPSQDS-----VSAGEKPP--RLYDRRSIFDVAQSNCOELESLLPFL 136

Qy      174 LTHKKRLTDFEFPSTGKTCLPKALLNLNGRNDTTPVLDDIAERTGNWRFINSPRD 233
Db      137 QRSKKRLTDFEFPSTGKTCCLKAMLNHLNGQNDTALLDLVARKTDSLQKFVNASYTD 196

Qy      234 IYRGQTALHAIERRCKHVVELLVQAQADVHAQARGFFQPKDEGGVFFGELPLSLAA 293
Db      197 SYYKGQTALHAIERNNTLVTLVENGADVQAANGDFPKTKRPGFFGELPLSLAA 256

Qy      294 CTNQPHIVNYLTENPHKADNRDORSGNTVLHVALIAONTRENTKFTVMYDLLLLKC 353
Db      257 CTNQLAIVKFLQNSWPADISARDSVGNTVLHALVEADNTVDNTKFTVMYNEILLG 316

Qy      354 ARLPFDSNLKLVNNDGLSPILMAAKTKGIGIFOHIIIRREYTDDETHLSKPKQWYGP 413
Db      317 AKLHPTKLBEITNRKGGLTPALAAASGKIGVLAYIIQREIHEPECHLSKRFTEWAYGP 376

Qy      414 VYSSLYDLSDLTGCEASVLEILVY-NSKIENRHEMLAVEPIINELLRDKWRKFGVSVFY 472
Db      377 VHSSLYDLSDLTDC-EKNSVLVETAYSSSETPNRRHMLLVEPLNELLQDKWDRFKVIFY 435

Qy      473 INVVSYLCAMVIFPLTAYOPEGTPPYVRYRTV-DYLRJAGEVITLFTGVLFFPTMIKD 531
Db      436 FNPVYCLYMIIFTAAAYRPREVEGLPPYKLNVTGDYFRVTGTEILSVSGGVYFFFRGIQ- 494

Qy      532 LFWKKCPGVNSLFTDGSFQLLYFYISVLVIVSAALYLAGIEAYLAVMVFAVLGMMNALY 591
Db      495 YFLQRRLSLSLFVDSYSEILFFVQSFLMVLVSVLYFSQRKEYVASWVFSIAMGWNTNLY 554

Qy      592 FTRGLKLTGYTYSIMQIKILFKDLFRFLVLLYFMIGVASALVSLINPCANNKVCNEQDN 651
Db      555 YTRGFQMGYIVAMIERMILRDLCRFPFVILVFLFGFSTAVTLLI-----EDGKN 604

Qy      652 CTVP---TYPSCRDS-----ETSTFLDLDFKLTIGMGDLEMLSSSTKVPVFIILL 699
Db      605 NSLPMESTPHKCRGSACKPGNSYNLSYST-CLELFKFTIGMGDLEFTENYDFKAVFIILL 663

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Qy 700 VTYILTFVLLINMLIALMGETVGQVSKESKIWKIQ 736
Db 664 LAYILTYVLLINMLIALMGETVKNIAQESKNIWKIQ 700

RESULT 8
US-09-667-422-9
; Sequence 9, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus sp.
; PUBLICATION INFORMATION:
; AUTHORS: Caterina, Michael J.
; AUTHORS: Schumacher, Mark A.
; AUTHORS: Tomimaga, Makoto
; AUTHORS: Rosen, Tobias A.
; TITLE: The capsaicin receptor: a heat-activated ion channel in
; TITLE: the pain pathway
; JOURNAL: Nature
; VOLUME: 389
; PAGES: 816-824
; DATE: 1997
US-09-667-422-9

Query March 40.9%; Score 1579.5; DB 2; Length 838
Best Local Similarity 44.6%; Pred. No. 3.6e-141;
Matches 338; Conservative 129; Mismatches 193; Indels 97

Qy 16 AELPDGDSGTGPGGE-----AFPLSSLANLPEGEDGS
Db 5 ASLUSESESPQENSCLDPPDRDNCNCKPPVKPHIFTRSRTRLP-GKGDSS
Qy 55 SRPAGPGDGRNLRMKFOGAFKGVN-PIDLLESTLYESSVVPVKAPAMD
Db 64 PYEEG-----GLASCFIITVSSVL-----TIORPGDGP-
Qy 114 RHSSDNKRWRKIIIEKQPSKAPAPQPPPIKLVNRRPILPDIIVSRGSTAD
Db 95 RPSSQDS-----VSAGEKPP--RLYDRSIFDVAQSNQCE
Qy 174 LTHKRLTDESFPSTGKTCPLPKALLNLNGRNDTIPVLLDIAERTGNMRE
Db 137 QRSKKRLTDSFKDPETGKTCLLKAMLNLNHQNQNTIALLLDVARKTDLSLQK
Qy 234 IYYRGQTALHIAIERRCKHYVELLVAAQADVHAQARGFFQPKDEGGYFYFGFVG
Db 197 SYXKGQTALHIAIERRNMTLVLLVENGADVQAAANGDFKKTKGRPGFYFG
Qy 294 CTNQPHIVNYITENPHKADMRQRDSRGNTVLHALVAIADNTRNTKFTVTQOM
Db 257 CTNQLAIVKFLQNSQWADISARDSVGNVTVLHALVEVADNTVDNTKFTVSM
Qy 354 ARLPDSDNLNLEAVLNDGLSPLMMAKTKIGIFQHIIRREVTDEDTRHLSRK
Db 317 AKLHPTLKLEETNKKGLTLPALASSGKIGVLAYILQREIHEPECHRSURKI
Qy 414 VYSSLYDLSSLDTCGEASVLEILVY-NSKIENRHEMLAVEPINEILLRDKWRI
Db 377 VHSSLYDLSCIDTC-EKNSVLEVIAYSSSETPNRHDMLLVEPLNRLIQDKWDI
Qy 473 INVVSYLCAMVIFTLTAYYQPLEGTPPYRTTV-DYLRLAGEVITLFTGVLI

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Db 436 FNFVYCLYMIIFTAAAYRVPVGLPPYKLNVTGDFRVTGTSILSVSGVFFFRGQ- 494  
QY 532 LFMKPCPGVNSLFDGSGFLLYIYVSVLSAALYLAGIAYLAVMVFALVGMNLY 591  
Db 495 YFLQRPSPKSLFVDSYSILFFVQSLFMLVSVVLYFSQKKEVAVSNVSLANGWNTMLY 554  
QY 592 FTRGLKLTGYSIMIQILFKDLFRLLVLLFPMIGYASALVSLNPNCAVMKVCNEDQTN 651  
Db 555 YTRGFQMGIVAMIEKMLRDLRCPMFVYVLFGLFSTAVVTLL-----EDGKN 604  
QY 652 CTVP---TYPSCRDS-----ETFSFLDLFKLTIGMDLMLSTKYPVVFPIILL 699  
Db 605 NSLPMESTPHKCRGSACKPGNSVNSYST-CLELFKFTIGMDLEFTENYDFKAVFIILL 663  
QY 700 VTYIILTFVLLNMLIALMGETVGVSKESKHIWKLO 736  
Db 664 LAYVILTYILLNMLIALMGETVKNIAQESKNIWKLO 700

RESULT 9  
US-09-978-303-2  
; Sequence 2, Application US/09978303  
; Patent No. 6790629  
; GENERAL INFORMATION:  
; APPLICANT: Julius, David J.  
; APPLICANT: Caterina, Michael J.  
; APPLICANT: Brake, Anthony J.  
; TITLE OF INVENTION: Nucleic acid sequences encoding  
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related  
; TITLE OF INVENTION: polypeptides and uses thereof  
; FILE REFERENCE: UCAL084CON  
; CURRENT APPLICATION NUMBER: US/09/978,303  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/235,451  
; PRIOR FILING DATE: 1999-01-22  
; PRIOR APPLICATION NUMBER: 60/072,151  
; PRIOR FILING DATE: 1998-01-22  
; PRIOR APPLICATION NUMBER: 08/915,461  
; PRIOR FILING DATE: 1997-08-20  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: FASTSEQ for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 838  
; TYPE: PRT  
; ORGANISM: R. rattus  
US-09-978-303-2

Query Match 40.9%; Score 1579.5; DB 2; Length 838;  
Best Local Similarity 44.6%; Pred. No. 3.6e-141;  
Matches 338; Conservative 129; Mismatches 193; Indels 97; Gaps 16;

QY 16 AELPGDESGTPGGE-----APPLSSLANLFEEDGSLSPSPADA 54  
Db 5 ASLDSESESPQENSCLDPPDRDNCPPPVKPHIFTRSRTRLF-GKGDSSEASPLDC 63  
QY 55 SRPAGPDGRPNLRMKFQAFKGVN-PIDLLSTLYESSVVPKPKPMDSLPDGYTY 113  
Db 64 PYEEG-----GLASCPITVSSVL-----TIQRPDGP-----ASV 94  
QY 114 RHSSDNKRWRKKIIEKQPSKPAPQPPPIKLVFNRRPILFDIVSRGSTADLGLLPFL 173  
Db 95 RPSSQDS-----VSAGEKPP--RLYDRSIFDAVAQSCQELSLLPFL 136  
QY 174 LTHKKGLTDBEPREPSTGKTLCPKALLNLSNGRNDTIPVLLDIAERTGNMRFINSPPRD 233  
Db 137 QRSKKGLTDSFQDPETGKTCLLKAMLNHLNGQNTIALLDVARKTDSLKQFVNASYTD 196  
QY 234 IYVRGOTALHIALTERCKHVVELLVQAQADVAQARGFPQKDEGGYFVFCGLPLSLAA 293  
Db 197 SYKGGOTALHIALERRNMLTVLLVENGADVQAANGDFKTKYRPGYFGELPLSLAA 256  
QY 294 CTNQPHVNYLTENPHKCDMRQDSRGNTVTLHALVAIADNTRENTKFTVKMYDLLLLKC 353

Db 257 CTNQLAIVKFLQNSQWADISARDSVGNVTVLHALVEADNTVNTKFTVSMYNEILILG 316  
QY 354 ARLFPDSNLNNDGLSPMLMAAKTKIGIFQHIIRREVTDETRHLNRKFKDWAYCP 413  
Db 317 AKLHPTLKEEITNRKGLUTPLAALAASSGKIGVAILQREIHEPECRHLNRKFTWAYCP 376  
QY 414 VYSSLYDLSSLDTCGEASVLEILVY-NSKIENRHEMLAVBPINELLRDKWRKFGAVSFY 472  
Db 377 VHSSLYDLSCIDTC-EKNSVLEVIAYSSSETPNHRDMLLVEPLNRLQDKWDRFVKRIFY 435  
QY 473 INVSYLCAMVITFTATYQPLEGTPPYDRTTV-DYLRLAGEVITLTGVLFFPTNID 531  
Db 436 FNFVYCLYMIIFTAAAYRVPVGLPPYKLNVTGDFRVTGTSILSVSGVFFFRGQ- 494  
QY 532 LFMKPCPGVNSLFDGSGFLLYIYVSVLSAALYLAGIAYLAVMVFALVGMNLY 591  
Db 495 YFLQRPSPKSLFVDSYSILFFVQSLFMLVSVVLYFSQKKEVAVSNVSLANGWNTMLY 554  
QY 592 FTRGLKLTGYSIMIQILFKDLFRLLVLLFPMIGYASALVSLNPNCAVMKVCNEDQTN 651  
Db 555 YTRGFQMGIVAMIEKMLRDLRCPMFVYVLFGLFSTAVVTLL-----EDGKN 604  
QY 652 CTVP---TYPSCRDS-----ETFSFLDLFKLTIGMDLMLSTKYPVVFPIILL 699  
Db 605 NSLPMESTPHKCRGSACKPGNSVNSYST-CLELFKFTIGMDLEFTENYDFKAVFIILL 663  
QY 700 VTYIILTFVLLNMLIALMGETVGVSKESKHIWKLO 736  
Db 664 LAYVILTYILLNMLIALMGETVKNIAQESKNIWKLO 700

RESULT 10  
US-10-246-435-9  
; Sequence 9, Application US/10246435  
; Patent No. 6867009  
; GENERAL INFORMATION:  
; APPLICANT: Cortright, Daniel  
; APPLICANT: Krause, James  
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof  
; FILE REFERENCE: HCR  
; CURRENT APPLICATION NUMBER: US/10/246,435  
; CURRENT FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: US/09/667,422  
; PRIOR FILING DATE: 2001-06-07  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 9  
; LENGTH: 838  
; TYPE: PRT  
; ORGANISM: Rattus sp.  
; PUBLICATION INFORMATION:  
; AUTHORS: Caterina, Michael J.  
; AUTHORS: Schumacher, Mark A.  
; AUTHORS: Tomimaga, Makoto  
; AUTHORS: Rosen, Tobias A.  
; TITLE: The capsaicin receptor: a heat-activated ion channel in  
; TITLE: the pain pathway  
; JOURNAL: Nature  
; VOLUME: 389  
; PAGES: 816-824  
; DATE: 1997  
US-10-246-435-9

Query Match 40.9%; Score 1579.5; DB 2; Length 838;  
Best Local Similarity 44.6%; Pred. No. 3.6e-141;  
Matches 338; Conservative 129; Mismatches 193; Indels 97; Gaps 16;

QY 16 AELPGDESGTPGGE-----APPLSSLANLFEEDGSLSPSPADA 54  
Db 5 ASLDSESESPQENSCLDPPDRDNCPPPVKPHIFTRSRTRLF-GKGDSSEASPLDC 63  
QY 55 SRPAGPDGRPNLRMKFQAFKGVN-PIDLLSTLYESSVVPKPKPMDSLPDGYTY 113



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Db 64 PYEEG-----GLASCPITVSSVL-----TIQRPDGP-----ASV 94
QY 114 RHSSDNKRWKRIIEKQSPKAPAPQPPPIKVFNRPIILFDIVSRGSTADLDGLLPL 173
Db 95 RPSQDS-----VSAGEKPP--RLYDRRSIPDAVAQSCQBELSLPL 136
QY 174 LTHKRLTDEEPREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFFINSPPRD 233
Db 137 QRSKRLTDSFKDPETGKTCLLKAMLNHNGQNTIALLDVARKTDSLKQFVNASYTD 196
QY 234 IYRGQTALHIAIERRCKHYVELLVAQAGADVHAQARGFFQPKDEGGYFYFGELPLSLAA 293
Db 197 SYKGTQALHIAIERRNMVLTLLVENGADVQAANGDFFKTKGRPGFYFGELPLSLAA 256
QY 294 CTNQPHIVNYLTENPHKKADMRQDSRGNTVHALVAIADNTRENTKFTVKMYDILLKLC 353
Db 257 CTNQLAIVKFLQNSWQPADISARDSVGNVTLHALVEVADNTVNTKFTVSMYNEILILG 316
QY 354 ARLFPDSNLEAVLNNDGLSPLMAAATGKIGIFOHIIIRREVTDDETRHLSRKFKDWAYGP 413
Db 317 AKLHPTLKLEETNRKGLTPLAALASSGKIGVLAIVLQREIHEPCRHLSRKFTWAYGP 376
QY 414 VYSSLYDLSLDTGCEASVLEILVY--NSKIENRHEMLAVEPINELLRDKWRKFGAVSFY 472
Db 377 VHSSLYDLSIDTCE--EKNVLEVIAYSSSETNRHDMLLVEPLNLLQDKWDRFVKRIFY 435
QY 473 INVSVLCAMVFTLTATYQOPELGTPPYRTTV--DYLRLAGEVITLFTGVLFFFFTNIKD 531
Db 436 FNFVYCYLMIIFTAAAYRPPVEGLPYKLNKTVGDYFRVTGEILSVSGGVYFFFRGQI- 494
QY 532 LPMKCPGVNSLFDIGSFOLLFYIYSLVIVSAALVLAGIAYLAVMVFALVGLWMNALY 591
Db 495 YLQRRPSLKSUFVDSYSEILFFVQSLFVLVSVLYFSORKEYVASMVFLSANGWNTNMLY 554
QY 592 FTRGLKLTGYSIMIQILFKDLFRLLVLLFMIGYASALVSLNMPCANMKVCNEDQTN 651
Db 555 YTRGFQOMGIYAVMIEKMLRDLCRFMFVLYVFLFGFSTAVTLLI-----EDGKN 604
QY 652 CTVP---TYPSCRDS-----ETPSTFLDLPLKLTIGMGDLEMLSTKYPVVFILL 699
Db 605 NSLPMESTPHKCRGSACKPGNSVNSLYST--CLELKFRTIGMGDLEFTENYDFKAVFIILL 663
QY 700 VTYIILTFVLLNMLIALMGETVGVSKESKHIWKLO 736
Db 664 LAYVILTYILLNMLIALMGETVKNIAQESKNIWKLO 700

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## RESULT 11

US-10-137-316-3

; Sequence 3, Application US/10137316

; Patent No. 6906178

; GENERAL INFORMATION:

; APPLICANT: Young, Paul E.

; APPLICANT: Ruben, Steven M.

; TITLE OF INVENTION: Vanilloid Receptor-2

; FILE REFERENCE: 1488.1110002

; CURRENT APPLICATION NUMBER: US/10/137,316

; CURRENT FILING DATE: 2002-05-03

; PRIOR APPLICATION NUMBER: US 09/132,316

; PRIOR FILING DATE: 1998-08-11

; NUMBER OF SEQ ID NOS: 67

; SOFTWARE: Patent In Ver. 3.1

; SEQ ID NO 3

; LENGTH: 838

; TYPE: PRT

; ORGANISM: Rattus norvegicus

; US-10-137-316-3

Query Match 40.9%; Score 1579.5; DB 2; Length 838;  
 Best Local Similarity 44.6%; Pred. No. 3.6e-141;

Matches 338; Conservative 129; Mismatches 193; Indels 97; Gaps 16;

QY 16 AELPGDESGTPGGE-----APPLSSLANLFEGBDGLSPSPADA 54

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Db 5 ASLDSSESESPQENSCLDPPDRDNCXKPPPKPHIFTRSRTRLF--CKGDSSEASPLDC 63
QY 55 SRPAGPGDRPNLRMKFQAGFRKGVN--PIDLLESTLYESSVVPQPKAPMDSLFYDGY 113
Db 64 PYEEG-----GLASCPITVSSVL-----TIQRPDGP-----ASV 94
QY 114 RHSSDNKRWKRIIEKQSPKAPAPQPPPIKVFNRPIILFDIVSRGSTADLDGLLPL 173
Db 95 RPSQDS-----VSAGEKPP--RLYDRRSIPDAVAQSCQBELSLPL 136
QY 174 LTHKRLTDEEPREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFFINSPPRD 233
Db 137 QRSKRLTDSFKDPETGKTCLLKAMLNHNGQNTIALLDVARKTDSLKQFVNASYTD 196
QY 234 IYRGQTALHIAIERRCKHYVELLVAQAGADVHAQARGFFQPKDEGGYFYFGELPLSLAA 293
Db 197 SYKGTQALHIAIERRNMVLTLLVENGADVQAANGDFFKTKGRPGFYFGELPLSLAA 256
QY 294 CTNQPHIVNYLTENPHKKADMRQDSRGNTVHALVAIADNTRENTKFTVKMYDILLKLC 353
Db 257 CTNQLAIVKFLQNSWQPADISARDSVGNVTLHALVEVADNTVNTKFTVSMYNEILILG 316
QY 354 ARLFPDSNLEAVLNNDGLSPLMAAATGKIGIFOHIIIRREVTDDETRHLSRKFKDWAYGP 413
Db 317 AKLHPTLKLEETNRKGLTPLAALASSGKIGVLAIVLQREIHEPCRHLSRKFTWAYGP 376
QY 414 VYSSLYDLSLDTGCEASVLEILVY--NSKIENRHEMLAVEPINELLRDKWRKFGAVSFY 472
Db 377 VHSSLYDLSIDTCE--EKNVLEVIAYSSSETNRHDMLLVEPLNLLQDKWDRFVKRIFY 435
QY 473 INVSVLCAMVFTLTATYQOPELGTPPYRTTV--DYLRLAGEVITLFTGVLFFFFTNIKD 531
Db 436 FNFVYCYLMIIFTAAAYRPPVEGLPYKLNKTVGDYFRVTGEILSVSGGVYFFFRGQI- 494
QY 532 LPMKCPGVNSLFDIGSFOLLFYIYSLVIVSAALVLAGIAYLAVMVFALVGLWMNALY 591
Db 495 YLQRRPSLKSUFVDSYSEILFFVQSLFVLVSVLYFSORKEYVASMVFLSANGWNTNMLY 554
QY 592 FTRGLKLTGYSIMIQILFKDLFRLLVLLFMIGYASALVSLNMPCANMKVCNEDQTN 651
Db 555 YTRGFQOMGIYAVMIEKMLRDLCRFMFVLYVFLFGFSTAVTLLI-----EDGKN 604
QY 652 CTVP---TYPSCRDS-----ETPSTFLDLPLKLTIGMGDLEMLSTKYPVVFILL 699
Db 605 NSLPMESTPHKCRGSACKPGNSVNSLYST--CLELKFRTIGMGDLEFTENYDFKAVFIILL 663
QY 700 VTYIILTFVLLNMLIALMGETVGVSKESKHIWKLO 736
Db 664 LAYVILTYILLNMLIALMGETVKNIAQESKNIWKLO 700

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## RESULT 12

US-09-197-636-2

; Sequence 2, Application US/09197636

; Patent No. 6239267

; GENERAL INFORMATION:

; APPLICANT: DUCKWORTH, DAVID

; APPLICANT: HAYES, PHILIP

; APPLICANT: MEADOWS, HELEN

; APPLICANT: DAVIS, JOHN

; TITLE OF INVENTION: NOVEL COMPOUNDS

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Ratner &amp; Prestia

; STREET: P.O. Box 980

; CITY: Valley Forge

; STATE: PA

; COUNTRY: US

; ZIP: 19482-0980

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

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/
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/197,636
/ FILING DATE: 23-NOV-1998
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: UK 9805137.8
/ FILING DATE: 12-MAR-1998
/ APPLICATION NUMBER: UK 9815791.0
/ FILING DATE: 21-JUL-1998
/ APPLICATION NUMBER: UK 9819278.4
/ FILING DATE: 03-SEP-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Prestia, Paul F
/ REGISTRATION NUMBER: 23,031
/ REFERENCE/DOCKET NUMBER: GP-30075
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 601-407-0700
/ TELEFAX: 610-407-0701
/ TELEX: 846169
/ INFORMATION FOR SEQ ID NO: 2:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 839 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
/ US-09-197-636-2
/
/ Query Match 40.4%; Score 1557.5; DB 2; Length 839;
/ Best Local Similarity 44.5%; Pred. No. 4.5e-139;
/ Matches 321; Conservative 138; Mismatches 188; Indels 74; Gaps 12;
/
/ QY 49 PSPADASRPAAGCDGRPNL-----RMKFG-----AFKGVNPNIDLES--TLYESSV 95
/ Db 22 PDPLDGNPSRPPPAKPOLSTAKSRTRLFKGGDSEAFVDCPHEBEGELDSCTTIVSPV 81
/
/ QY 96 V-----PGPKAPMDSLFDYGYRHHSSDNKRWRKKIIEKQPSKAPAPQPPILKVF 149
/ Db 82 ITIQPGDGTGARL-----LSQDSVAASTKTLRLY 113
/
/ QY 150 NRPLFDIVSRGSTADLGLLPFLTHKKRLTDEEFREPSTGTCIPLKALLNLSGRNDT 209
/ Db 114 DRSIFEAVANNQCDLESLLFLQSKKHLTDNEFKDPETGKTCCLKKMLNHGQNTT 173
/
/ QY 210 IPLLDAERTGNMREFINSPRDIYRGQTALHIAIERCKHYVELLVAAQADVAQAAH 269
/ Db 174 IPLLLEIARQTDLSKELVNASYTDSTYKGTALHIAIERNNMALVTLVLENGADVQAAH 233
/
/ QY 270 GRFFQPKDGGYFYFGEPLSLAACTNPHIVNYLTENPHKKADMRRQDSRGNTVLHALV 329
/ Db 234 GDFFKTKGRPGFYFGEPLSLAACTNQLGIYKFLQNSWQTADI:SARDSVGNVTVLHALV 293
/
/ QY 330 AIADNTRENTKFTVMYDILLKCARLPDPSNLEAVLNNDGLSPLMMAAKTGKIGIFOH 389
/ Db 294 EVADNTADNTKFTVMYNNILILGAKHLTKLEELTNKGMTPLALAGTKIGVLAYI 353
/
/ QY 390 IREVTDETRHLRSRFPKDWAGPVVSYDIYSSLDTCGEASVLEILVY-NSKIENRHE 448
/ Db 354 LQREIQEPCRHLSRKFTEWAYGPVHSSLYDLSCIDTC-EKNSVLEVIAYSSSETPNRHD 412
/
/ QY 449 MLAVEPINELLKDKWKFGAVGFYINVSYLCAWIFTLTAYYQPLEGTPPYPTTYDY 508
/ Db 413 MLVLEPLNLLQDKWDFVKRIFYFNFLVYCLYIMFTWAAAYRYPVDGLPPFMKEXTG 472
/
/ QY 509 LRLAGEVITLFTGLVFFFTNIKDLFMKCPGVNSLFDIGSFOLLYFIYSLVIVSAAALYL 568
/ Db 473 FRVTGILSVLGGVYFFFGIGQ-YFLQRRPSMKTLFVDSYSEMLFFLOSLFMLATVLYF 531
/
/ QY 569 AGIEAYLAVMWVFLVIGWNNALYFTHGLKLTGTYSIMIQILFKDLFRLLVYLLFMIGY 628
/ Db 532 SHLKEYVASMVFLSALGWTNMLYYTRGFOQMGIIYAVNIEKMILRDLRCRPMFYVIVFLFG 591
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QY 629 ASALVSLNPCANMKVCNEDOTNCTVPTY-----PSCRDSCT-----ESTFLDLFK 675
/
/ Db 592 STAVVTLI-----EDGNLSLSESTSHRWGPGACRPPDSSYNSLYST-CLELFK 640
/
/ QY 676 LTIGMGDLEMSSTKYVVFILLVYIILTFVLLNMLIALMGETVGVQVSKESKHIVKL 735
/
/ Db 641 FTIGMGDLFTENYDFKAVFIILLAYVILAVIILLNMLIALMGETVKNKIQESKNIVKL 700
/
/ QY 736 Q 736
/
/ Db 701 Q 701
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RESULT 13
US-09-197-636-8
/ Sequence 8, Application US/09197636
/ Patent No. 6239267
/ GENERAL INFORMATION:
/ APPLICANT: DUCKWORTH, DAVID
/ APPLICANT: HAYES, PHILIP
/ APPLICANT: MEADOWS, HELEN
/ APPLICANT: DAVIS, JOHN
/ TITLE OF INVENTION: NOVEL COMPOUNDS
/ NUMBER OF SEQUENCES: 8
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Ratner & Prestia
/ STREET: P.O. Box 980
/ CITY: Valley Forge
/ STATE: PA
/ COUNTRY: US
/ ZIP: 19482-0980
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ COMPUTER: IBM Compatible
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/09/197,636
/ FILING DATE: 23-NOV-1998
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: UK 9805137.8
/ FILING DATE: 12-MAR-1998
/ APPLICATION NUMBER: UK 9815791.0
/ FILING DATE: 21-JUL-1998
/ APPLICATION NUMBER: UK 9819278.4
/ FILING DATE: 03-SEP-1998
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Prestia, Paul F
/ REGISTRATION NUMBER: 23,031
/ REFERENCE/DOCKET NUMBER: GP-30075
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 601-407-0700
/ TELEFAX: 610-407-0701
/ TELEX: 846169
/ INFORMATION FOR SEQ ID NO: 8:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 839 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/
/ US-09-197-636-8
```

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Query Match 40.3%; Score 1556.5; DB 2; Length 839;
Best Local Similarity 44.5%; Pred. No. 5.6e-139;
Matches 321; Conservative 138; Mismatches 188; Indels 74; Gaps 12;
/
/ QY 49 PSPADASRPAAGCDGRPNL-----RMKFG-----AFKGVNPNIDLES--TLYESSV 95
/ Db 22 PDPLDGNPSRPPPAKPOLSTAKSRTRLFKGGDSEAFVDCPHEBEGELDSCTTIVSPV 81
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QY 96 V-----PGPKAPMDSLFYGYTHHSSDNKRWKIIIEKOPQSPKAPAPQPPPIKLVF 149  
Db 82 ITIQRGDGTGRL-----LSQDSVAASTEKTLRLY 113  
QY 150 NRPILFDIVSRGSTADLDGLLPFLTHKKRLTDEEPRPSTGKTCLPKALLNLNNGRNDT 209  
Db 114 DRRSFEAVANNQCDLESLLFLQSKKHLTDNEFKDPETGKTCLLKAMNLHDQONTT 173  
QY 210 IPVLIDIAERTGNMREFFINSPPDIYIRGOTALHIAIERCKHYVELLVAQADVHAQAR 269  
Db 174 IPLLIEIARQDLSLKVNASYTDYSYKGTALHIAIERNNALVTLLVENGADVQAAAH 233  
QY 270 GRFPQKDEGGYFYFGEPLPLSLAAGTNPQPHVNYLTENPHKADMRRODSRGNVTVLHALV 329  
Db 234 GDFPKTKGRPGFYFGEPLPLSLAAGTNPQPHVNYLTENPHKADMRRODSRGNVTVLHALV 293  
QY 330 AIADNTRENTKFTVMYDILLKCARLFPDNLNLDGLSPLMAAAGTKIGIFQHI 389  
Db 294 EVADNTADNTKFTVMYDILLKCARLFPDNLNLDGLSPLMAAAGTKIGIFQHI 353  
QY 390 IREVTDDETRHLSRKFKDWAYGVPVYSSLYDLSLDTGCEASVLEILVY-NSKIENRHE 448  
Db 354 LQREIQEPECHLSRKFKTEWAYGVPVHSSLYDLSLDTGCEASVLEILVY-NSKIENRHE 412  
QY 449 MLAVEPINELLRDKWKFKGAVSYINNVSYLCAWIFTLTAYYQLEGTPPYPTTVDY 508  
Db 413 MLLVEPLNLLQDKWRDVKRIFVFNFLVYCLYMIIFTMAAYRVPDGLPFFKMEKTDY 472  
QY 509 LRLAGBITLFTGVLFVFFFTNIDKFMKCPGVNSLFDIGSFOLLYFYISVVLVSAALYL 568  
Db 473 FRVTGEILSVLGGVYFFFRGIQ-YFLQRPSPKMTLFDVDSYSEMLFLOSLFMLATVVLVYF 531  
QY 569 AGIEAYLAVMVPALVGLGNMVALYFTGKLITGYSIMIKILFKDLFRLVLLVLMICY 628  
Db 532 SHLKEYVASWVFLGALGWTNMLYTRGFGQMGIVAVMIEKMLRDLCRFPMVYVFLVGF 591  
QY 629 ASALVSLNPNCAWKNVEDQNTCTVPTV-----PSCRDSET-----FSTFLDLDFK 675  
Db 592 STAVVTLI-----EDGKNDLSPSESTSHRWGPGACRPDSSYNSLYST-CLELFPK 640  
QY 676 LTIGMDLEMLSSTKYPVVFILLVYIILTVFLLNMLIALMGETVGVQSVKSHIWK 735  
Db 641 FTIGMDLEFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVGVQSVKSHIWK 700  
QY 736 Q 736  
Db 701 Q 701

## RESULT 14

US-09-235-451-34  
; Sequence 34, Application US/09235451  
; GENERAL INFORMATION:  
; APPLICANT: Julius, David J.  
; APPLICANT: Caterina, Michael J.  
; APPLICANT: Brake, Anthony J.  
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING  
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED  
; FILE OF INVENTION: POLYPEPTIDES, AND USES THEREOF  
; FILE REFERENCE: 9076/084CIP  
; CURRENT APPLICATION NUMBER: US/09/235,451  
; CURRENT FILING DATE: 1999-01-22  
; PRIOR APPLICATION NUMBER: 60/072,151  
; PRIOR FILING DATE: 1998-01-22  
; PRIOR APPLICATION NUMBER: 08/915,461  
; PRIOR FILING DATE: 1997-08-20  
; NUMBER OF SEQ ID NOS: 48  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 34  
; LENGTH: 839  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-235-451-34

Query Match 40.3%; Score 1556.5; DB 2; Length 839;  
Best Local Similarity 44.5%; Pred. No. 5.6e-139;  
Matches 321; Conservative 138; Mismatches 188; Indels 74; Gaps 12;

QY 49 PSPADASRAGPCDGRPNL-----RMKFG-----AFKGVNPNIDLES--TLVESV 95  
Db 22 PDLGDPNSRPPPAKPOLSTAKSTRFLFGKDSSEAPVDCPHEGELDSCTTVSV 81  
QY 96 V-----PGPKAPMDSLFYGYTHHSSDNKRWKIIIEKOPQSPKAPAPQPPPIKLVF 149  
Db 82 ITIQRGDGTGRL-----LSQDSVAASTEKTLRLY 113  
QY 150 NRPILFDIVSRGSTADLDGLLPFLTHKKRLTDEEPRPSTGKTCLPKALLNLNNGRNDT 209  
Db 114 DRRSFEAVANNQCDLESLLFLQSKKHLTDNEFKDPETGKTCLLKAMNLHDQONTT 173  
QY 210 IPVLIDIAERTGNMREFFINSPPDIYIRGOTALHIAIERCKHYVELLVAQADVHAQAR 269  
Db 174 IPLLIEIARQDLSLKVNASYTDYSYKGTALHIAIERNNALVTLLVENGADVQAAAH 233  
QY 270 GRFPQKDEGGYFYFGEPLPLSLAAGTNPQPHVNYLTENPHKADMRRODSRGNVTVLHALV 329  
Db 234 GDFPKTKGRPGFYFGEPLPLSLAAGTNPQPHVNYLTENPHKADMRRODSRGNVTVLHALV 293  
QY 330 AIADNTRENTKFTVMYDILLKCARLFPDNLNLDGLSPLMAAAGTKIGIFQHI 389  
Db 294 EVADNTADNTKFTVMYDILLKCARLFPDNLNLDGLSPLMAAAGTKIGIFQHI 353  
QY 390 IREVTDDETRHLSRKFKDWAYGVPVYSSLYDLSLDTGCEASVLEILVY-NSKIENRHE 448  
Db 354 LQREIQEPECHLSRKFKTEWAYGVPVHSSLYDLSLDTGCEASVLEILVY-NSKIENRHE 412  
QY 449 MLAVEPINELLRDKWKFKGAVSYINNVSYLCAWIFTLTAYYQLEGTPPYPTTVDY 508  
Db 413 MLLVEPLNLLQDKWRDVKRIFVFNFLVYCLYMIIFTMAAYRVPDGLPFFKMEKTDY 472  
QY 509 LRLAGBITLFTGVLFVFFFTNIDKFMKCPGVNSLFDIGSFOLLYFYISVVLVSAALYL 568  
Db 473 FRVTGEILSVLGGVYFFFRGIQ-YFLQRPSPKMTLFDVDSYSEMLFLOSLFMLATVVLVYF 531  
QY 569 AGIEAYLAVMVPALVGLGNMVALYFTGKLITGYSIMIKILFKDLFRLVLLVLMICY 628  
Db 532 SHLKEYVASWVFLGALGWTNMLYTRGFGQMGIVAVMIEKMLRDLCRFPMVYVFLVGF 591  
QY 629 ASALVSLNPNCAWKNVEDQNTCTVPTV-----PSCRDSET-----FSTFLDLDFK 675  
Db 592 STAVVTLI-----EDGKNDLSPSESTSHRWGPGACRPDSSYNSLYST-CLELFPK 640  
QY 676 LTIGMDLEMLSSTKYPVVFILLVYIILTVFLLNMLIALMGETVGVQSVKSHIWK 735  
Db 641 FTIGMDLEFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVGVQSVKSHIWK 700  
QY 736 Q 736  
Db 701 Q 701

## RESULT 15

US-09-978-303-34  
; Sequence 34, Application US/09978303  
; Patent No. 6790629  
; GENERAL INFORMATION:  
; APPLICANT: Julius, David J.  
; APPLICANT: Caterina, Michael J.  
; APPLICANT: Brake, Anthony J.  
; TITLE OF INVENTION: Nucleic acid sequences encoding  
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related  
; TITLE OF INVENTION: polypeptides and uses thereof  
; FILE REFERENCE: UCAL084CON  
; CURRENT APPLICATION NUMBER: US/09/978,303  
; CURRENT FILING DATE: 2001-10-15  
; PRIOR APPLICATION NUMBER: 09/235,451

